

PC-0028 US

<110> Lasek, Amy W.  
Krasnow, Randi E.  
Baughn, Mariah R.

<120> INTESTINAL PROTEINS

<130> PC-0028 CIP

<140> To Be Assigned  
<141> Herewith

<160> 32  
<170> PERL Program

<210> 1  
<211> 475  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3229449CD1

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20 25 30  
Thr Lys Val Trp Ser Ala Leu Asn Leu Ser Ile Ser Leu His Tyr  
35 40 45  
Trp Asn Asn Ser Thr Lys Ser Leu Phe Pro Lys Thr Pro Leu Ile  
50 55 60  
Ser Leu Lys Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile  
65 70 75  
Ile Glu Lys Leu Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His  
80 85 90  
Val Asn Thr Thr Thr Ser Ala Thr His Ser Thr Ala Thr Ile Leu  
95 100 105  
Asn Pro Arg Asp Thr Tyr Cys Arg Gly Asp Gln Leu His Ile Leu  
110 115 120  
Leu Glu Val Arg Asp His Leu Gly Arg Arg Lys Gln Tyr Gly Gly  
125 130 135  
Asp Phe Leu Arg Ala Arg Met Ser Ser Pro Ala Leu Met Ala Gly  
140 145 150  
Ala Ser Gly Lys Val Thr Asp Phe Asn Asn Gly Thr Tyr Leu Val  
155 160 165  
Ser Phe Thr Leu Phe Trp Glu Gly Gln Val Ser Leu Ser Leu Leu  
170 175 180  
Leu Ile His Pro Ser Glu Gly Val Ser Ala Leu Trp Ser Ala Arg  
185 190 195  
Asn Gln Gly Tyr Asp Arg Val Ile Phe Thr Gly Gln Phe Val Asn  
200 205 210  
Gly Thr Ser Gln Val His Ser Glu Cys Gly Leu Ile Leu Asn Thr  
215 220 225  
Asn Ala Glu Leu Cys Gln Tyr Leu Asp Asn Arg Asp Gln Glu Gly

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	230		235		240
Phe Tyr Cys Val Arg	Pro Gln His Met	Pro Cys Ala Ala Leu Thr			
	245		250		255
His Met Tyr Ser Lys	Asn Lys Lys Val	Ser Tyr Leu Ser Lys Gln			
	260		265		270
Glu Lys Ser Leu Phe	Glu Arg Ser Asn Val	Gly Val Glu Ile Met			
	275		280		285
Glu Lys Phe Asn Thr	Ile Ser Val Ser Lys	Cys Asn Thr Leu Lys			
	290		295		300
Ser Val Asp Leu His	Glu Ser Gly Lys Leu	Gln His Gln Leu Ala			
	305		310		315
Val Asp Leu Asp Arg	Asn Ile Asn Ile Gln	Trp Gln Lys Tyr Cys			
	320		325		330
Tyr Pro Leu Ile Gly	Ser Met Thr Tyr Ser	Val Lys Glu Met Glu			
	335		340		345
Tyr Leu Thr Arg Ala	Ile Asp Arg Thr Gly	Gly Glu Lys Asn Thr			
	350		355		360
Val Ile Val Ile Ser	Leu Gly Gln His Phe	Arg Pro Phe Pro Ile			
	365		370		375
Asp Val Phe Ile Arg	Arg Ala Leu Asn Val	His Lys Ala Ile Gln			
	380		385		390
His Leu Leu Leu Arg	Ser Pro Asp Thr Met	Val Ile Ile Lys Thr			
	395		400		405
Glu Asn Ile Arg Glu	Met Tyr Asn Asp Ala	Glu Arg Phe Ser Asp			
	410		415		420
Phe His Gly Tyr Ile	Gln Tyr Leu Ile Ile	Lys Asp Ile Phe Gln			
	425		430		435
Asp Leu Ser Val Ser	Ile Ile Asp Ala Trp	Asp Ile Thr Ile Ala			
	440		445		450
Tyr Gly Thr Asn Asn	Val His Pro Pro Gln	His Val Val Gly Asn			
	455		460		465
Gln Ile Asn Ile Leu	Leu Asn Tyr Ile Cys				
	470		475		

<210> 2

<211> 547

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 7484349CD1

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	20	25	30
Phe Thr Lys Leu Trp	Ser Ala Leu Asn Leu	Ser Ile Ser Val His	
	35	40	45
Tyr Trp Asn Asn Ser	Ala Lys Ser Leu Phe	Pro Lys Thr Ser Leu	
	50	55	60
Ile Pro Leu Lys Pro	Leu Thr Glu Thr Glu	Leu Arg Ile Lys Glu	
	65	70	75
Ile Ile Glu Lys Leu	Asp Gln Gln Ile Pro	Pro Arg Pro Phe Thr	
	80	85	90

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His Val Asn Thr	Thr Thr Ser Ala Thr	His Ser Thr Ala Thr	Ile
95	100		105
Leu Asn Pro Arg	Asp Thr Tyr Cys Arg	Gly Asp Gln Leu Asp	Ile
110	115		120
Leu Leu Glu Val	Arg Asp His Leu Gly	Gln Arg Lys Gln Tyr	Gly
125	130		135
Gly Asp Phe Leu	Arg Ala Arg Met Ser	Ser Pro Ala Leu Thr	Ala
140	145		150
Gly Ala Ser Gly	Lys Val Met Asp Phe	Asn Asn Gly Thr Tyr	Leu
155	160		165
Val Ser Phe Thr	Leu Phe Trp Glu Gly	Gln Val Ser Leu Ser	Leu
170	175		180
Leu Leu Ile His	Pro Ser Glu Gly Ala	Ser Ala Leu Trp Arg	Ala
185	190		195
Arg Asn Gln Gly	Tyr Asp Lys Ile Ile	Phe Lys Gly Lys Phe	Val
200	205		210
Asn Gly Thr Ser	His Val Phe Thr Glu	Cys Gly Leu Thr Leu	Asn
215	220		225
Ser Asn Ala Glu	Leu Cys Glu Tyr Leu	Asp Asp Arg Asp Gln	Glu
230	235		240
Ala Phe Tyr Cys	Met Lys Pro Gln His	Met Pro Cys Glu Ala	Leu
245	250		255
Thr Tyr Met Thr	Thr Arg Asn Arg Glu	Val Ser Tyr Leu Thr	Asp
260	265		270
Lys Glu Asn Ser	Leu Phe His Arg Ser	Lys Val Gly Val Glu	Met
275	280		285
Met Lys Asp Arg	Lys His Ile Asp Val	Thr Asn Cys Asn Lys	Arg
290	295		300
Glu Lys Ile Glu	Glu Thr Cys Gln Val	Gly Met Lys Pro Pro	Val
305	310		315
Pro Gly Gly Tyr	Thr Leu Gln Gly Lys	Trp Ile Thr Thr Phe	Cys
320	325		330
Asn Gln Val Gln	Leu Asp Thr Ile Lys	Ile Asn Gly Cys Leu	Lys
335	340		345
Gly Lys Leu Ile	Tyr Leu Leu Gly Asp	Ser Thr Leu Arg Gln	Trp
350	355		360
Ile Tyr Tyr Phe	Pro Lys Val Val Lys	Thr Leu Lys Phe Phe	Asp
365	370		375
Leu His Glu Thr	Gly Ile Phe Lys Lys	His Leu Leu Leu Asp	Ala
380	385		390
Glu Arg His Thr	Gln Ile Gln Trp Lys	Lys His Ser Tyr Pro	Phe
395	400		405
Val Thr Phe Gln	Leu Tyr Ser Leu Ile	Asp His Asp Tyr Ile	Pro
410	415		420
Arg Glu Ile Asp	Arg Leu Ser Gly Asp	Lys Asn Thr Ala Ile	Val
425	430		435
Ile Thr Phe Gly	Gln His Phe Arg Pro	Phe Pro Ile Asp Ile	Phe
440	445		450
Ile Arg Arg Ala	Ile Gly Val Gln Lys	Ala Ile Glu Arg Leu	Phe
455	460		465
Leu Arg Ser Pro	Ala Thr Lys Val Ile	Ile Lys Thr Glu Asn	Ile
470	475		480
Arg Glu Met His	Ile Glu Thr Glu Arg	Phe Gly Asp Phe His	Gly
485	490		495
Tyr Ile His Tyr	Leu Ile Met Lys Asp	Ile Phe Lys Asp Leu	Asn
500	505		510

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Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr  
515 520 525  
Asp Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn  
530 535 540  
Met Phe Leu Asn Tyr Ile Cys  
545

<210> 3  
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<212> DNA  
<213> Homo sapiens

<220>  
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<223> Incyte ID No: 3229449CB1

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agagtctatg tatgggattg aacaatctgt aaactaaagg atcctaataca tgaaaataag 180  
tatgataaat tataagtcac tattggcact gttgtttata ttagcctcct ggatcatttt 240  
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ttactggaac aactccacaa agtccttatt ccctaaaaca ccactgatat cattaaagcc 360  
actaacagag actgaactca gaataaagga aatcatagag aaactagatc agcagatccc 420  
accagacct ttcacccacg tgaacaccac caccagcgcc acacatagca cagccaccat 480  
cctcaaccct cgagatacgt actgcagggg agaccagctg cacatcctgc tggagggtgag 540  
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cagtgaaggg gtgtcagctc tctggagtgc aaggaaccaa ggctatgaca ggggtgatctt 780  
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ctgggatata acaattgcat atggcacaaa taatgtacac ccacctcaac atgtagtccg 1560  
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<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2771041H1

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agagtctatg tatgggattg aacaatctgt aaactaaagg atcctaataca tgaaaataag 180  
tatgataaat tataagtcac tattggcact gttgtttata ttagcctcct ggatcatttt 240

<210> 5

<211> 621

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 71851705V1

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gcagcagaga cagagagacc tggccctccc agaacagagt gaagctgacc aggtaggtgc 180  
cgttggtgaa gtcagtcacc tttcctgaag cacctgccat cagcgtggg gaagacatcc 240  
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<210> 6

<211> 545

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 70255975V1

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<211> 236

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5596934H1

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<222> 228  
<223> a, t, c, g, or other

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aacagagacc aagaaggctt ctactgtgtg aggcctcaac acatgccctg tgctgcactc 180  
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<210> 8  
<211> 414  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> Incyte ID No: 3229449F6

<220>  
<221> unsure  
<222> 47, 105, 248  
<223> a, t, c, g, or other

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cctaattggga gattccacga tccgccagtg gatggaatac ttcaaagcca gtatcaacac 180  
actgaagtca gtggatctgc atgaatctgg aaaattgcaa caccagcttg ctgtggattt 240  
ggataggnac atcaacatcc agtggcaaaa acattgttat cccttgatag gatcaatgac 300  
ctattcagtc aaagagatgg agtacctcac ccggggccat tgacagaact ggaggagaaa 360  
aaaaatactg tcattgttat ttccctgggg ccagcatttc agaccctttt ccca 414

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<211> 394  
<212> DNA  
<213> Homo sapiens

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gtccacaaaag ccattcagca tcttctctctg agaagcccag acactatggg tatcatcaaa 180  
acagaaaaca tcaggagat gtacaatgat gcagaaagat ttagtgactt tcatggttac 240  
attcaatata tcatcataaa ggacatttcc caggatctca gtgtgagtat cattgatgcc 300  
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<212> DNA  
<213> Homo sapiens

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<220>

<221> misc\_feature

<223> Incyte ID No: 7484349CB1

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caagttggaa	tgaagcctcc	tgctcctggg	ggttatactt	tacaaggaaa	atggataaca	1140
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gacctcaacg	tgggcatcat	tgatgcctgg	gacatgacca	ttgcatatgg	cactgacact	1740
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taagggataa	atactataca	aaatcactag	gaaccaatct	ctgcacataa	tcccacatgt	1860
attgtaaagt	aagttttact	catttttagga	actaaggaaa	ataaatttaa	aagaatctgt	1920
ttggggagga	aggctatgta	aggacaatga	caactgataa	gggatgcaaa	accaagagaa	1980
tcattcatga	agaatgacta	taccatgcct	ggttctgatg	ctcgttttaa	atattaaaaa	2040
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tttctatttc	caatatagat	atttcctagc	tctgtctatt	gaaaaggcct	aggagcaatg	2160
ataaccatt	agcaataatc	actccgagca	ccctaactgt	gatgtctaag	aacccttctt	2220
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<210> 11

<211> 661

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1333949F6

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tctcagaact tcacaaagct ttgggtctgt ctaaacttat ccatctctgt ccattactgg 300
aacaactcgc caaagtcctt attccctaaa acatcactga taccattaaa gccactaaca 360
gagactgaac tcagaataaaa ggaaatcata gagaaactag atcagcagat cccaccaga 420
cctttcaccc atgtgaacac caccaccagt gccacacaca gcacagccac catectcaac 480
cctcgagata catactgcag gggagaccag ctggacatcc tactggaggt gagggaccac 540
ttgggacaga ggaagcaata tgggtggggat ttcctgaggg ccaggatgtc ctecccagca 600
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<210> 12

<211> 518

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 7604658J1

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acattcagtg aagacatgag aggtgccatt aacaaatttg cctttgaaaa taattttatc 180
atagccttgg ttctttgccc tccagagagc cgacgcccct tactgggggt ggatgagcag 240
cagagacagg gagacctggc cctcccagaa cagagtgaag ctgaccaggt aggtgccatt 300
gttgaagtc atcacctttc ctgaagcacc tgccgtcagt gctggggagg acatcctggc 360
cctcaggaaa tccccacat attgcttctc ctgtcccaag tggctcctca cctccagtag 420
gatgtccagc tgggtctccc tgcagtatgt atctcgaggg ttgaggatgg tggctgtgct 480
gtgtgtggca ctgggtggtg tgttcacatg ggtgaaag 518
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<210> 13

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 70106729V1

<400> 13

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cttttgaaca ccgatggccc tgcgaataaaa aatgtcaatg ggaaatggtc taaagtgtctg 180
gccaaagggtg atgacgatgg ctgtgttttt gtcacctgat agccggtcaa tttcccgagg 240
gatataatca tgatctatca gagagtagag ctggaaagtg acgaagggat agctatgttt 300
tttccattga atctgagtgt gtctttctgc atccagaagc aaatgtttct taaagattcc 360
agtttcatga agatcaaaaa acttcagtgt ttttacaact ttggggaagt agtagatcca 420
ctgacgtagt gtagagtctc ccaggaggta aatgagtttg ct 462
```

<210> 14

<211> 531

<212> DNA

<213> Homo sapiens

<220>

PC-0028 US

<221> misc\_feature

<223> Incyte ID No: 70107804V1

<400> 14

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tatagtccatt cttcatgaat gattctcttg gttttgcatc cttatcagt tgtcattgtc 120
cttacatagc cttcctcccc aaacagattc ttttaaattt attttcctta gttcctaaaa 180
tgagtaaaac ttactttaca atacatgtgg gattatgtgc agagattggg tcctagtgat 240
tttgtatagt atttatccct tagcaaatgt agtttaagaa catgttaatc tgatttccaa 300
tcacatgac aggtgggtgg atagtgtcag tgccatatgc aatggtcatg tcccaggcat 360
caatgatgcc cacgttgagg tctttgaaaa tctccttcac gataagatag tgaatataac 420
catggaagtc tccaaacctc tctgtctcta tgtgcatctc cctgatgttt tctgtcttaa 480
taatcacttt agtggctggg ctttttagga acagtctttc aatagccttt t 531
```

<210> 15

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5865314H1

<220>

<221> unsure

<222> 2, 15, 50

<223> a, t, c, g, or other

<400> 15

```
gnaaaaccaa gagantcatt catgaagaat gactatacca tgcttggttn tgatgctcgt 60
ttaaaatatt aaaaaagttt tttaaaagcc atgttatttaa gctgatttga aaatatctgt 120
acaaattcat gatgctttct atttccaata tagatatttc ctactctctg ctattgaaaa 180
ggcctaggag caatgataac ccattagcaa taatcactcc gagcacccta actgtgatgt 240
ctaagaaccc ttctcaata aaagaaaaga ggcatc 276
```

<210> 16

<211> 206

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701244557H1

<400> 16

```
ccagccctga cggcaggcgc ttctggaaaa gtgacagact tcaacaatgg cgccctaccta 60
gtcagcttca ctctgctctg ggagggccag gtctccctgt ctatcctgct catgcacccc 120
agtgaagggg tgtcagctct ctggagagca aggaaccagg gttacgacag aatcatcttc 180
tcaggccatt ttgtcagtgg cgcttc 206
```

<210> 17

<211> 291

<212> DNA

<213> Rattus norvegicus

<220>

PC-0028 US

<221> misc\_feature

<223> Incyte ID No: 700306567H1

<400> 17

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cctggaagat attctttaag gcaagatact ggggtgtaacc gtggaagtca ctaaaccctct 60
ccatgtcggtt attcaactcc ctggtgtttt ctgttttgag gaccaccagg gtgtccgggc 120
ttctctggag aagacgctga agagctctgt gaacactgag ggcccttcgg ataaaaacat 180
caatgggaaa aggtctgaaa tgctggccca gagaaaagac aatgactgtg tttttctctc 240
ctccgattct gtcaattatc cgtgcagtgt tctctatctc tttgacagag t 291
```

<210> 18

<211> 244

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 700141983H1

<400> 18

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agcttccttc taatcgggtc attggtgtac tctgtcaaag agatagagaa cactgcacgg 60
ataattgaca gaatcggagg agagaaaaac acagtcattg tcttttctct gggccagcat 120
ttcagacctt ttcccattga tgtttttata cgaagggcc tcaagtgtca cagagctctt 180
cagcgtcttc tccagagaag cccggacacc ctggtgggtc tcaaaacaga aaacaccagg 240
gagt 244
```

<210> 19

<211> 270

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701725590H1

<400> 19

```
catggcttcc ctctaactcg gtcattgggtg tactctgtca aagagataga gaacactgca 60
cggataattg acagaatcgg aggagagaaa aacacagtca ttgtcttttc tctgggccag 120
catttcagac cttttcccat tgatgttttt atccgaagg ccttcagtgt tcacagagct 180
cttcagcgtc ttctccttag aagcccggac accctgggtg tcttcaaaac agaaaattat 240
aggagattga ataacgacat ggagagggtt 270
```

<210> 20

<211> 288

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 700363665H1

<400> 20

```
aacacagtca ttgtcttttc tctgggccag catttcagac cttttcccat tgatgttttt 60
atccgaacgg ccttcagtgt tcacagagct cttcagcgtc ttctcctgag aagcccggac 120
acctgggtgg tcttcaaaac agaaaacacc atggagttga ataacgacat ggagagggtt 180
agtgattcca cggttacacc cagtatcttg ccttaaagaa tatcttcag gatctccgtg 240
```

PC-0028 US

tgggtgtcat tgatgcctgg gatatgacag ttgcatatgg cacaaacg

288

<210> 21

<211> 275

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701473585H1

<400> 21

gcagcaccaa	cttgccgtgg	acttggatga	gaaaatcaac	atccagtggc	agaaacatgg	60
cttcctctta	atcgggtcat	tgggtgtactc	tgtcaaagag	atagagaaca	ctgcacggat	120
aattgacaga	atcggaggag	agaaaaacac	agtcattgtc	ttttctctgg	gccagcattt	180
cagacctttt	cccattgatg	tttttatccg	ataggccctc	agtgttcaca	gagctcttca	240
gcgtcttctc	cagagaagcc	cggacaccct	ggtgg			275

<210> 22

<211> 257

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 700600759H1

<400> 22

gccaggtctc	cctgtctatc	ctgctcatgc	accccagtga	aggggtgtca	gctctctgga	60
gagcaaggaa	ccaaggctat	ggtagaattg	ccttcaaagg	gacttttgtt	aatggcacat	120
ccaaggtcac	agctgaatgt	ggcctgatcc	tgaactcaag	cagtgaagtc	tgcaaatacc	180
tgtaccgtgg	tggcgaggaa	gtcttctact	gcgtgaagcc	tcaacacatg	ccctgtgagg	240
ccctgacctc	cgtgtgt					257

<210> 23

<211> 276

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701460109H1

<400> 23

tatgggctgt	gtttaagctg	cctgcatcct	tcaatcaatg	ggacttgatc	atgaaatcct	60
catgccttaa	agtgcctctc	aatccatcag	tttcaccaac	agagacagaa	ctgagaatca	120
aggagatcct	agagaaacta	aacaaacaga	tccctcccag	acccttcgcc	cacctcaaca	180
acaccacaag	tgctacacac	agcatagcca	ccatcctcaa	ccctcaagat	acatactgtg	240
taggggacca	gctggacatc	ctggtagagg	ctagag			276

<210> 24

<211> 250

<212> DNA

<213> Rattus norvegicus

<220>

PC-0028 US

<221> misc\_feature

<223> Incyte ID No: 701420417H1

<400> 24

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aacaaggaca tttcttatct tagccagcag gaaaggagcc tctttgaaag gtcaaatata 60
gctgtggaga ttatgggaaa atccaacgtg attagtgtct ccaaatgcaa caaagccgtc 120
ccggtgaaga agaaatgcaa gtttgggatg gcactctgcaa tccctactgg gcactgtctg 180
aaaaacacgt ggaatccggc ctctgcagt ctggctccaa tcaaatgaa agactgtctg 240
agagggaaaac 250
```

<210> 25

<211> 248

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701634496H1

<400> 25

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cggacaccct ggtggctctc aaaacagaaa acaccaggga gttgaataac gacatggaga 60
ggtttagtga cttccacggg tacacccagt atcttgctt aaagaatctc ttccaggatc 120
tccgtgtggg tgtcattgat gcctgggata tgacagttgc atatggcaca aacgatgtcc 180
atccaccaga ggaggtagtt agaagtgaat ttaatatatt cttaaactat atttgctagc 240
aaacacat 248
```

<210> 26

<211> 329

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701601584H1

<400> 26

```
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gcatatggca caaacgatgt ccatccacca gaggaggtag ttagaagtga aattaatata 120
ttcttaaact atatttgcta gcaaacacat aactttgaaa gtcgctcggt gaacttaaaa 180
gagacagtga gtcctacagc cgtgccaaat gccgagatat cccagttaat ccaaggacat 240
aatctgtatt atgggtccatg tgggtccatcc agttcagcct aataaggcat tcctacgcc 300
gctgtgtgct caaaattgaa tatgaaaag 329
```

<210> 27

<211> 144

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 701940254H1

<400> 27

```
agcctctttg aaagggtcaaa tatagctgtg gagattatgg gaaaatccaa cgtgattagt 60
gtctccaaat gcaacagggt ctttgaaaaa gatggaaggc acttaataaa cacagatgaa 120
ctgggtgtttt agaagacccc atct 144
```

PC-0028 US

<210> 28  
<211> 262  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> misc\_feature  
<223> Incyte ID No: 701463630H1

<400> 28  
gggaaaaggt ctgaaatgct ggcccagaga aaagacaatg actgtgtttt tctctcctcc 60  
gattctgtca attatccgtg cagtgttctc tatctctttg acagagtaca ccaatgaccc 120  
gattagaggg aagccatggt tctgccactg gatgttgatt ttctcatcca agtccacggc 180  
aagttgggtc tgcagccttc cagtctcgtg gaggtccacc ggctcagcg tgttgatttt 240  
gcttttgaag tactocatcc ac 262

<210> 29  
<211> 277  
<212> DNA  
<213> Rattus norvegicus

<220>  
<221> misc\_feature  
<223> Incyte ID No: 701623610H1

<400> 29  
ctcacacgga gatcctggaa gatattcttt aaggcaagat actgggtgta tccgtggaag 60  
tcaactgatgc ctgggatatg acagttgcat atggcacaaa cgatgtccat ccaccagagg 120  
aggtagttag aagtgaatatt aatatattct taaactatat ttgctagcaa acacataact 180  
ttgaaagtcg ctggttgaac ttaaaagaga cagtgaagtc tacagccgtg ccaagtgccg 240  
agatatccca gttaatccaa ggacataatc tgtatta 277

<210> 30  
<211> 1005  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: GNN.g9965027\_000007\_006

<400> 30  
atgtcttccc cagcgctgat ggcaggtgct tcaggaaagg tgactgactt caacaacggc 60  
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atccacccca gtgaaggggt gtcagctctc tggagtgcaa ggaaccaagg ctatgacagg 180  
gtgatcttca ctggccagtt tgtcaatggc acttcccaag tccactctga atgtggcctg 240  
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tactgtgtga ggctcaaca catgccctgt gctgcaacta ctcacatgta ttctaagaac 360  
aagaaagttt cttatcttag caaacaagaa aagagcctct ttgaaaggtc aaatgtgggt 420  
gtagagatta tggaaaaatt caatacaatt agtgtctcca aatgcaacac actgaagtca 480  
gtggatctgc atgaatctgg aaaattgcaa caccagcttg ctgtggattt g gataggaac 540  
atcaacatcc agtggcaaaa atattgttat cccttgatag gatcaatgac ctattcagtc 600  
aaagagatgg agtacctcac ccgggccatt gacagaactg gaggagaaaa aaatactgtc 660  
attgttattt ccttgggcca gcatttcaga ccctttccca ttgatgtttt tatccgaagg 720  
gccctcaatg tccacaaagc cattcagcat cttcttctga gaagcccaga cactatgggt 780  
atcatcaaaa cagaaaacat caggggagatg tacaatgatg cagaaagatt tagtgacttt 840

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```
catggttaca ttcaatatct catcataaag gacatTTTTcc aggatctcag tgtgagtatc 900
attgatgcct gggatataac aattgcatac ggcacaaata atgtacaccc acctcaacat 960
gtagtcggaa atcagattaa tatattatta aactatattt gttaa 1005
```

<210> 31

<211> 1545

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: GNN.g9795680\_006.edit

<400> 31

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aaggaaatca tagagaaact agatcagcag atccccacca gacctttcac ccatgtgaac 180
accaccacca gtgccacaca cagcacagcc accatcctca accctcgaga tacatactgc 240
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tatggtgggg atttctgag ggccaggatg tctctcccag cactgacggc aggtgcttca 360
ggaaaggtga tggacttcaa caatggcacc tacctggtea gcttcactct gttctgggag 420
ggccaggtct cctgtctct gctgtctatc caccctcagt aaggggcgtc ggctctctgg 480
agggcaagga accaaggcta tgataaaatt attttcaaag gcaaatttgt taatggcacc 540
tctcatgtct tcaactgaatg tggcctgacc ctaaaactcaa atgctgaact ctgtgaatat 600
ctggatgaca gagaccaaga agccttctat tgtatgaagc ctcaacacat gccctgtgag 660
gctctgacct acatgaccac ccggaataga gaggtatctt atcttacaga caaggaaaac 720
agccttttcc acagggtccaa agtgggagtt gaaatgatga aggatcgtaa acacattgat 780
gtcactaatt gtaacaagag agaaaaaata gaagagacat gccaaagttgg aatgaagcct 840
cctgtccctg gtggttatac tttacaagga aaatggataa caacattttg caaccagggt 900
cagttagaca caattaagat aaatggctgt ttgaaaggca aactcattta cctcctggga 960
gactctacac tacgtcagtg gatctactac ttccccaag ttgtaaaaac actgaagttt 1020
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atagatcatg attatatccc tcgggaaatt gaccggctat caggtgacaa aaacacagcc 1200
atcgtcatca cctttggcca gcactttaga ccatttccca ttgacatttt tattcgcagg 1260
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attattaaga cagaaaacat caggagatg cacatagaga cagagaggtt tggagacttc 1380
catggttata ttactatct tatcatgaag gatattttca aagacctcaa cgtgggcac 1440
attgatgcct gggacatgac cattgcatat ggcactgaca ctatccaccc acctgatcat 1500
gtgattggaa atcagattaa catgttctta aactacattt gctaa 1545
```

<210> 32

<211> 540

<212> PRT

<213> Oryctolagus cuniculus

<220>

<221> misc\_feature

<223> Incyte ID No: g1762

<400> 32

```
Met Leu His Lys Tyr Leu Lys Leu Ile Cys Leu Leu Ala Ala Ile
  1             5             10             15
Cys Val Leu Cys Ile Ile Ser Gln Asn Ser Thr Lys Ile Trp Gly
              20             25             30
Ala Leu Lys Leu Pro Asn Ser His Tyr Tyr Ser Asn Thr Ser Met
```

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Ile	Ser	Ser	Ile	Pro	Lys	Met	Ser	Val	Ser	Pro	Val	Lys	Ser	Leu	35	40	45
Thr	Glu	Thr	Glu	Leu	Arg	Val	Lys	Glu	Ile	Leu	Glu	Lys	Leu	Asp	50	55	60
Arg	Leu	Ile	Pro	Pro	Arg	Pro	Phe	Thr	His	Val	Asn	Thr	Thr	Thr	65	70	75
Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile	Leu	Asn	Pro	Gln	Asp	Lys	80	85	90
Tyr	Cys	Val	Gly	Asp	Gln	Leu	Asp	Ile	Leu	Leu	Glu	Val	Arg	Asp	95	100	105
Tyr	Leu	Gly	His	Gln	Lys	Glu	Tyr	Gly	Gly	Asp	Phe	Leu	Arg	Ala	110	115	120
Arg	Met	Phe	Ser	Pro	Ala	Leu	Lys	Ala	Gly	Ala	Ser	Gly	Lys	Val	125	130	135
Thr	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu	Val	Ser	Phe	Thr	Leu	Phe	140	145	150
Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Val	Leu	Leu	Ile	His	Pro	Ser	155	160	165
Glu	Gly	Ala	Ser	Ala	Leu	Trp	Arg	Ala	Arg	Asn	Gln	Gly	Tyr	Asp	170	175	180
Arg	Ile	Ile	Phe	Lys	Gly	Gln	Phe	Val	Asn	Gly	Thr	Ser	His	Val	185	190	195
Phe	Thr	Glu	Cys	Ser	Leu	Thr	Leu	Asn	Ser	Asn	Thr	Glu	Glu	Cys	200	205	210
Lys	Tyr	Leu	Asn	Gly	Arg	Asp	Gln	Asp	Val	Phe	Tyr	Cys	Met	Lys	215	220	225
Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu	Thr	His	Val	Thr	Ser	Arg	230	235	240
Asn	Arg	Asp	Ile	Ser	Tyr	Leu	Thr	Ser	Lys	Glu	Lys	Asn	Leu	Phe	245	250	255
His	Arg	Ser	Lys	Val	Gly	Val	Glu	Ile	Met	Lys	Asn	Gln	His	Ile	260	265	270
Asp	Val	Ser	Gln	Cys	Asn	Lys	Ser	Lys	Glu	Val	Lys	Glu	Lys	Cys	275	280	285
Gln	Ile	Gly	Met	Lys	Ile	Pro	Val	Pro	Gly	Gly	Tyr	Thr	Leu	Gln	290	295	300
Gly	Arg	Trp	Leu	Thr	Thr	Phe	Cys	Asn	Gln	Ile	Gln	Leu	Asp	Thr	305	310	315
Ala	Lys	Ile	Ser	Gly	Cys	Leu	Lys	Gly	Lys	Leu	Ile	Tyr	Leu	Met	320	325	330
Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp	Ile	Tyr	Tyr	Leu	Pro	Lys	Val	335	340	345
Met	Lys	Thr	Leu	Lys	Phe	Phe	Asp	Leu	His	Glu	Thr	Gly	Asn	Phe	350	355	360
Lys	Lys	His	Leu	Leu	Leu	Asp	Ala	Glu	Lys	His	Thr	Gln	Ile	Gln	365	370	375
Trp	Lys	Lys	His	Ser	His	Pro	Phe	Val	Thr	Tyr	Gln	Leu	Phe	Ser	380	385	390
Val	Ile	Asp	His	Gly	Tyr	Ile	Pro	Gln	Glu	Ile	Asp	Arg	Leu	Ile	395	400	405
Gly	Asp	Lys	Asp	Thr	Val	Ile	Val	Ile	Thr	Phe	Gly	Gln	His	Phe	410	415	420
Arg	Pro	Phe	Pro	Ile	Asp	Ile	Phe	Ile	Arg	Arg	Ala	Ile	Ser	Val	425	430	435
Arg	Gln	Ala	Ile	Glu	Arg	Leu	Phe	Leu	Arg	Ser	Pro	Ala	Thr	Lys	440	445	450

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Val	Ile	Val	Lys	Thr	Glu	Asn	Ile	Arg	Glu	Met	His	Ile	Glu	Ala
				455					460					465
				470					475					480
Glu	Arg	Phe	Gly	Asp	Phe	His	Gly	Tyr	Ile	Gln	Tyr	Leu	Thr	Leu
				485					490					495
Lys	Asp	Ile	Phe	Lys	Asp	Leu	Asn	Val	Gly	Val	Val	Asp	Ala	Trp
				500					505					510
Asp	Met	Thr	Ile	Ala	Tyr	Gly	Thr	Asn	Asn	Val	His	Pro	Pro	Asp
				515					520					525
Gln	Val	Ile	Gly	Asn	Gln	Ile	Asn	Met	Phe	Leu	Asn	Tyr	Ile	Cys
				530					535					540